

- Learn foundational core scientific concepts in biology, chemistry, and physics to become biologically literate. These core concepts are evolution, structure & function, information flow, exchange and storage, pathways and transformations of energy and matter, and systems (recommended by the American Association for the Advancement of Sciences).
- Learn mathematical concepts utilized in the biological sciences.
- Learn the process of science through problem solving and data interpretation. This involves the ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions.
- Develop communication skills this is extremely important for veterinary applicants.
- Understand the interdisciplinary nature of science.
- Understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.
- Function effectively on teams to solve problems.

|   | (see Biology major checklist or UG Bulletin for courses)  |  |
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| Biology (20 hrs)                            |   |  |
| Chemistry (16 hrs)                          |   |  |
| Physics (8 hrs)                             |   |  |
| Mathematics (7 hrs)                         |   |  |
| • • •                                       | ses): WRTG 1310, 1320, 2310, 2315, 3301, or 3310<br>PCH 1310 (Public Speaking) or SPCH 3307 (Interpersonal Communication) |  |
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| <ul> <li>Learn foundational cour</li> </ul> | rse content needed to apply to veterinary medicine programs.  |  |

- Exposure to diverse coursework to broaden thought processes so they can approach and deal with different topics and problems.
- An ability to identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science to areas relevant to the discipline.
- Develop independent inquiry and problem-solving skills.
- **Develop communication skills** this is extremely important for veterinary applicants.
- Understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.

| The pre-requisite course is indicated in parentheses along with the upper division core designation, if applicable. |
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| BIOL 3420 General Microbiology (BIOL 2490)  CHEM 4320 Biochemistry I (CHEM 3411)                                    |



Most veterinary programs recommend animal care/handling experience. This will demonstrate your motivation, interest and familiarity with the profession. This experience will come through in your personal essay, letters of recommendation, and personal interview. Obtaining this experience is